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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,109	06/15/2005	Koji Yoshino	38340	9045
52054 PEARNE & GO	7590 05/09/2007 ORDON LLP	EXAMINER		
1801 EAST 9TH STREET			VAN, QUANG T	
SUITE 1200 CLEVELAND, OH 44114-3108			ART UNIT	PAPER NUMBER
·			3742	
			MAIL DATE	DELIVERY MODE
			05/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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 		Application No.	Applicant(s)	
		10/539,109	YOSHINO ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Quang T. Van	3742	
Period fo	The MAILING DATE of this communication or Reply		vith the correspondence address	
WHIC - Exte after - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING ansions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication operiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUN R 1.136(a). In no event, however, may riod will apply and will expire SIX (6) MO atute, cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this communic ABANDONED (35 U.S.C. § 133).	
Status			•	
1111	Responsive to communication(s) filed on R	CE filed on 04/02/2007		•
		This action is non-final.		
3)	,		itters, prosecution as to the meri	its is
- ,—	closed in accordance with the practice und			
Disposit	ion of Claims			•
4)⊠	Claim(s) 1-3,8 and 9 is/are pending in the a	application.	•	
.,	4a) Of the above claim(s) is/are with			
5)	Claim(s) is/are allowed.			
	Claim(s) <u>1-3,8 and 9</u> is/are rejected.		•	
	Claim(s) is/are objected to.	•		
	Claim(s) are subject to restriction ar	nd/or election requirement.		
Applicat	ion Papers			
9)	The specification is objected to by the Exan	niner.		•
	The drawing(s) filed on 20 July 2005 is/are:		ected to by the Examiner.	
,	Applicant may not request that any objection to			i
	Replacement drawing sheet(s) including the co			121(d).
11)	The oath or declaration is objected to by the			
Priority	under 35 U.S.C. § 119		·	
<u>-</u>	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C	. § 119(a)-(d) or (f).	
	N All b) Some * c) None of:			
	1. Certified copies of the priority docum	ents have been received.	·	•
	2. Certified copies of the priority docum	nents have been received in	Application No	
	3. Copies of the certified copies of the			е
	application from the International Bu			
*	See the attached detailed Office action for a		ot received.	
			· ·	
Attachme		,, — , , , ,		
- =	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948	· 	v Summary (PTO-413) o(s)/Mail Date	
3) 🔲 Info	rmation Disclosure Statement(s) (PTO/SB/08)	´ 5) ☐ Notice o	of Informal Patent Application	
Pap	er No(s)/Mail Date	6) 🔲 Other: _	·	

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Claim Rejections - 35 USC § 103

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

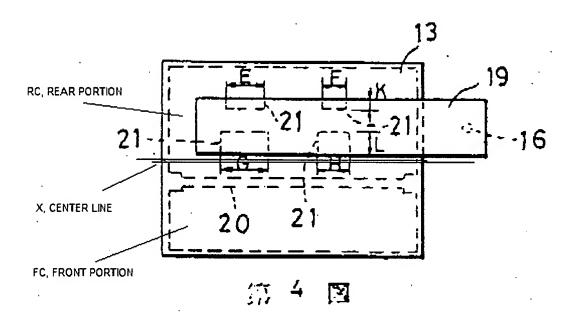
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 3, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimura et al (JP54048348A) in view of JP 63174296A, both cited by applicant. Yoshimura discloses a high frequency heating apparatus comprising a magnetron (1, figure 3) to a heating chamber (3) via a waveguide (8), wherein an electricity feeding port (6) for radiating the microwave is provided at a ceiling wall (7) of the heating chamber (3), and the wave guide (8) is formed in an L-like shape including a side waveguide (8) extended upwardly along an outer side face (7) of the heating chamber (3) and an upper waveguide extended from an upper end of the side wave guide to the electricity feeding port (6) along an outer face of the ceiling wall (7). However, Yoshimura does not disclose a plurality of pieces of the electric feeding ports feeding ports, wherein the plurality of electricity feeding ports are formed by at least two or more kinds of electricity feeding ports having different shapes and opening areas, wherein when the plurality of electricity feeding ports are aligned in a front and rear direction of the ceiling wall, the opening area of the electricity feeding port at a position proximate to a center of the ceiling wall is set to be larger than the opening area of the electricity feeding port at a position remote from the center of the ceiling wall, wherein a heating member in a linear shape for heating by a heater is mounted to the ceiling wall of the

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heating chamber and the electricity feeding ports are mounted to the ceiling wall, both the heating member and the electricity feeding ports being mounted at a position away from a line equally dividing the ceiling wall into two in a front and rear direction. JP 63174296A discloses a plurality of pieces of the electric feeding ports (17, 21, Figures 1-5), wherein the plurality of electricity feeding ports (17, 21) are formed by at least two or more kinds of electricity feeding ports having different shapes and opening areas (Figure 1-5), wherein when the plurality of electricity feeding ports (17, 21) are aligned in a front and rear direction of the ceiling wall, the opening area (G) of the electricity feeding port (21, Figure 4) at a position proximate to a center of the ceiling wall is set to be larger than the opening area (E, Figure 4) of the electricity feeding port at a position remote from the center of the ceiling wall (Figure 4), wherein a heating member in a linear shape (20, Figure 4) for heating by a heater is mounted to the ceiling wall of the heating chamber (12) and the electricity feeding ports (21, Figure 4) are mounted to the ceiling wall, both the heating member (20, Figure 4) and the electricity feeding ports (21, Figure 4) being mounted at a position away from a line (X, Figure below) equally dividing the ceiling wall into two in a front (FC, Figure below) and rear (RC, Figure below) direction. It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize in Yoshimura a plurality of pieces of the electric feeding ports feeding ports, wherein the plurality of electricity feeding ports are formed by at least two or more kinds of electricity feeding ports having different shapes and opening areas, wherein when the plurality of electricity feeding ports are aligned in a front and rear direction of the ceiling wall, the opening area of the electricity feeding

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port at a position proximate to a center of the ceiling wall is set to be larger than the opening area of the electricity feeding port at a position remote from the center of the ceiling wall, wherein a heating member in a linear shape for heating by a heater is mounted to the ceiling wall of the heating chamber and the electricity feeding ports are mounted to the ceiling wall, both the heating member and the electricity feeding ports being mounted at a position away from a line equally dividing the ceiling wall into two in a front and rear direction, as taught by JP 63174296A in order to distribute temperature uniformly throughout the heating chamber.



3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimura et al (JP54048348A) in view of JP 63174296A, and further in view of JP 62100982A, all cited by applicant. Yoshimura/ JP 63174296A disclose substantially all

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features of the claimed invention except an antenna of the magnetron is arranged to be directed to a side of the heating chamber and to be opposed to the side wall and the side wall is formed with a bulged portion bulged to an inner side of the chamber. JP 62100982A discloses an antenna (9) of the magnetron (8) is arranged to be directed to a side of the heating chamber and to be opposed to the side wall and the side wall is formed with a bulged portion (7) bulged to an inner side of the chamber (1). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize in Yoshimura/ JP 63174296A an antenna of the magnetron is arranged to be directed to a side of the heating chamber and to be opposed to the side wall and the side wall is formed with a bulged portion bulged to an inner side of the chamber as taught by JP 62100982A in order to prevent interference with antenna.

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4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshimura et al (JP54048348A) in view of JP 63174296A, and further in view of Noda et al (JP05074568A) all cited by applicant. Yoshimura/ JP 63174296A disclose substantially all features of the claimed invention except the heating member is arranged to be inclined to the line equally dividing the ceiling wall into two in the front and rear direction. Noda discloses a heating member (3) is arranged to be inclined to the line equally dividing the ceiling wall into two in the front and rear direction (figure 2). It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize in Yoshimura/ JP 63174296A a heating member is arranged to be inclined to the line equally dividing the ceiling wall into two in the front

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and rear direction as taught by Noda in order to disperse heat evenly in the microwave oven.

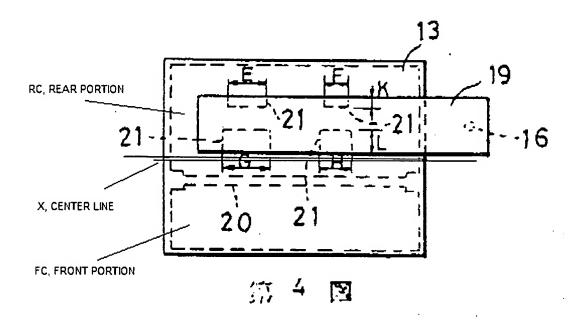
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Response to Amendment

5. Applicant's arguments filed 04/02/2007 have been fully considered but they are not persuasive.

Applicants argue "neither Yoshimura nor JP 63-174296 teach or suggest a heating member and electricity feeding ports mounted to the ceiling wall of a heating apparatus at a position <u>away from</u> a line that equally divides the ceiling wall into front and rear portions, as required by claim 1", recited in REMARKS/ARGUMENTS, page 8 of 10. The Examiner disagrees. JP 63-174296 disclosed, in figure 4 (or below), a heating member (20) and electricity feeding ports (21) mounted to the ceiling wall of a heating apparatus at a position <u>away from</u> a line (X, figure below) that equally divides the ceiling wall into front (FC, figure below) and rear portions (RC, figure below).

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang T. Van whose telephone number is 571-272-4789. The examiner can normally be reached on 8:00Am 7:00Pm M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

QV QV

May 4, 2007

Quang T Van

Primary Examiner

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